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RESEARCH AND DEPLOYMENT HOSPITAL OPEN SOFTWARE PLATFORM FOR E-HEALTH ON THE GRID SYSTEM AT VAST

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Abstract: *Grid computing has been a topic of increasing in recent years. It attracts the attention of many scientists from many fields. As a result, many Grid systems have been built for serving people's demands. At present, many tools for developing the Grid systems such as Globus, gLite, Unicore still developed incessantly. Especially, gLite – the Grid Middleware - was developed by the Europe Community scientific in recent years. Constant growth of Grid technology opened the way for new opportunities in term of information and data exchange in a secure and collaborative context. These new opportunities can be exploited to offer physicians new telemedicine services in order to improve their collaborative capacities. Our platform gives physicians an easy to use telemedicine environment to manage and share patient's information (such as electronic medical record, images formatted DICOM…) between remote locations.This paper presents the Grid Infrastructure based on gLite; some main components of gLite; the challenge scenario in which new applications can be developed to improve collaborative work between scientists; the process of deploying Hospital Open software Platform for E-health (HOPE) on the Grid.*

Keywords: *Telemedicine, Medical Data Management, Data Management, Medical Image processing, Web Services, GridSphere, Grid, Grid Computing.*